

**AMENDMENTS TO THE CLAIMS**

1-14. (Cancelled)

15. (Currently Amended) An imaging system comprising:

a non-visible radiation source;

an object to be imaged;

a transmissive screen for converting non-visible radiation from the non-visible radiation source into visible radiation after the non-visible radiation passes through the object to be imaged;

a transmissive optical coating containing microspheres on the transmissive screen for concentrating the visible radiation from the transmissive screen; and

an optical focusing system for focusing the concentrated visible radiation from the transmissive optical coating onto an imaging device.

16. (Previously Presented) The imaging system of claim 15, wherein the non-visible radiation is x-ray radiation.

17. (Cancelled)

18. (Previously Presented) The imaging system of claim 15, wherein the imaging system further includes a binder layer, binding the transmissive screen to the transmissive optical coating.

19. (Previously Presented) The imaging system of claim 18, wherein the binder layer has a first optical index and a predetermined thickness and each microsphere of the transmissive optical coating has a second optical index and a predetermined focal point.

20. (Currently Amended) The ~~method~~ imaging system according to claim 19, wherein the second optical index is higher than the first optical index.

21. (Currently Amended) The ~~method~~ imaging system according to claim 19, wherein the predetermined thickness of the binder layer is approximately equal to the predetermined focal point of each of the microspheres.